LMA District Cover Sheet

Spring 2015 Levee Inspection Results

Knights Landing Ridge Drainage District

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)					
* Overall LMA Rating (Fall Only)									
	** Non-receipt of Su	ummer or Winter Inspe	ection Reports may effec	ct overall annual rating.					
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.									
	FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.								
Comments									

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles
Unit No. 01 Knights Landing Ridge Cut	Right	6.36

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/23/2015 - 04/23/2015			
DWR Inspector	Jai Lor			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

11100		Rating **	Α	Issue No.		3	
LM Start			A			ა	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
	Operations & Maintenance Manuals				0		0
Item					0		0
DWR ID	DWR_NA0	008_01_s _ 201	3_3				
		Action/	Comme	nts			
Inspector	Comments	: District has	levee ma	anuals.			

No Photos

0						
0						
Action/Comments						

Inspector Comments: District maintains a stockpile of flood response material.

LM Start		Rating **	Α	Issue No.		9	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				0		0
					0		0
DWR ID	DWR_NA0	008_01_s _ 201	3_9				
Action/Comments							

Action/Comments

Inspector Comments: District has written response plan and regular flood response training.

No Photos

No Photos

N : Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	0.00	Rating **	М	Issue No.		14	
LM End	6.34	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	tituc	le/Longitude	
Calegory				Start		End	
Item	Vegetation			38.71908	88 °	38.792433	0
пеш				-121.66414	16 °	-121.726610	0
DWR ID	DWR_NA0008_01_s _ 2015_14						
Action/Comments							

Control annual grass and weeds on the levee slopes and easements.

Photo 1 of 1: SP_2015_NA0008_256_14_20150423_00013.jpg



View of the vegetation on the landward side of the levee looking upstream. Spring 2015.

0.00	Rating **	M	Issue No.	15		
6.34	Issue Type +	Ma	Location *	WS		
Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Vegetation			38.71908	88°	38.792433 °	
			-121.66414	16 °	-121.726610 °	
DWR_NA0008_01_s _ 2015_15					·	
Action/Comments						
	6.34 Earthen L Vegetation	6.34 Issue Type + Earthen Levee Vegetation DWR_NA0008_01_s _ 201	6.34 Issue Type + Ma Earthen Levee Vegetation DWR_NA0008_01_s _ 2015_15	6.34 Issue Type + Ma Location * Earthen Levee GPS La Start Vegetation 38.71908 -121.66414 DWR_NA0008_01_s _ 2015_15	6.34 Issue Type + Ma Location * Earthen Levee GPS Latitud Start Vegetation 38.719088 ° -121.664146 ° DWR_NA0008_01_s _ 2015_15	

Control annual grass and weeds on the levee slopes and easements.

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

	LM Start	0.25	Rating **	U	Issue No.		21	
	LM End	0.25	Issue Type +	En	Location *	WS		
	Category	Suppleme	ental		GPS La	titud	le/Longitude	
					Start		End	
	Item	DWR UC	IP Field Study		38.72222	22 °	38.722222	٥
					-121.6663	57 °	-121.666357	0
	DWR ID							

38.722222

Action/Comments
Inspector Comments: FS_ID:13203

DS_ID:19360 EP_NO: 9302 Repair Type: Urgent

Crossing Status: Found
UCIP Comments: Pipe completely rusted through on LS slope of levee at toe/headwall of concrete distribution box. Pipe needs replacement or

proper abandonment. Pipe not visible at outlet.

FIELD_STRUCT_DESC: 36-inch pipe through the levee, 24.0 feet below the crown. Slide gate on the waterward end. 12'X6' Concrete box

on the landward end (Permit No. 9302-Elliott). Originally included in

O+M manual (1953). FS Date: 04/05/2013

	LM Start	0.88	Rating **	М	Issue No.		22	
	LM End	0.88	Issue Type +	En	Location *		WS	
	Category	GPS Latitude/Longitude						
	Calegory				Start		End	
	Item	DWR UC	IP Field Study		38.7278	69 °	38.727869	0
	пеш				-121.6748	75 °	-121.674875	0
	DWR ID							

Action/Comments

Inspector Comments: FS_ID:11064

DS_ID:19361 EP_NO: 9302

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe exposed on WS slope in trench may need to be

backfilled to prevent erosion under pipe.

FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 8.8 feet below the crown. Pump on steel pile structure at WS toe. Siphon breaker in 12-inch steel riser on LS slope. Possible butterfly valve at LS toe. (Permit No. 9302-Elliott 1974), Originally included in

O+M manual (1953). FS Date: 04/05/2013 No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W: Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	1.16	Rating **	М	Issue No.	23	
LM End	1.16	Issue Type +	En	Location *	WS	
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP Field Study		38.73027	5 °	38.730275 °
пеш				-121.67897	5 °	-121.678975 °
DWR ID						·

Action/Comments

Inspector Comments: FS_ID:11065

DS_ID:19362 EP_NO: 9305

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Slope on WS shoulder appears to be eroding at pipes exit from levee. 36-inch conc riser on LS is filled with mud. FIELD_STRUCT_DESC: 10-inch pipe through the levee, 5.8-feet below the crown. Pump at the waterward toe. 36-inch Concrete standpipe at the landward toe (Permit No. 9305-Bacchini). 5-inch steel-pipe sleeved through 10-inch pipe. Annular space Grouted. (Permit No. 6076-

Bacchini). Originally included in O+M manual (1953).

FS Date: 04/05/2013

LM Start	1.61	Rating **	М	Issue No.		24
LM End	1.61	Issue Type +	En	Location *		WS
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP Field Study		38.73539	9°	38.735399 °
пеш				-121.68405	8 °	-121.684058 °
DWR ID						•

Action/Comments

Inspector Comments: FS_ID:13204

DS_ID:19363 EP_NO: 9302

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Space between 16-inch and 24-inch pipe should be

grouted. There is no pump on stand at WS toe.

FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 5.9-feet below the crown. 16-inch steel pipe sleeved through this pipe. No visible control valves. Pump on pile structure in stream. Siphon breaker on the landward slope. Discharges into concrete irrigation ditch off the landward toe (Permit No. 9302-Elliott). Originally included in O+M

manual (1953). FS Date: 04/05/2013 No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	2.58	Rating **	A/W	Issue No.		19	
LM End	2.58	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	titud	le/Longitude	
Calegory				Start		End	
Item	Cracking			38.7472	18 °	38.747218 °	
item				-121.6944	50 °	-121.694450 °	
DWR ID	DWR ID DWR_NA0008_01_f _ 2013_19						
		A - 1' /	<u> </u>	- 1 -			

Action/Comments

Monitor and have inspected by geotechnical engineer. Inspector Comments: Cracks along crown and down waterside slope.



Cracking along the waterside shoulder of the crown the length of 20 feet. Fall 2013

LM Start	2.61 Rating ** M		Issue No.		25			
LM End	2.61	Issue Type +	En	Location *		WS		
Category				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UC	IP Field Study		38.74711	10 °	38.747110	0	
item				-121.69441	15 °	-121.694415	0	
DWR ID								

Action/Comments

Inspector Comments: FS_ID:11067

DS_ID:19364 EP_NO: 9307

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Siphon breaker on LS burried or broken off and missing.

FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee, 5.4feet below crown. Pump house on pile structure at the landward toe Siphon breaker on the landward slope. Service pole and anchor at landward toe (Permit No. 9307- Lowe). Originally included in O+M manual (1953)

FS Date: 04/05/2013

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	2.61	Rating **	М	Issue No.	26		
LM End	2.61	Issue Type +	En	Location *	WS		
Category	Suppleme	ental		GPS Lat	itud	le/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study		38.74720	4 °	38.747204	0
пеш				-121.69444) °	-121.694440	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:13205

DS_ID:19391 EP_NO: 9307

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Walkway to actuater slide gate is missing. No

method of actuating slide gate.

FIELD_STRUCT_DESC: 2 of 2: 4-foot x 4-foot concrete box culvert through the levee, 23 feet below the crown. Walkway to slide gate on the waterside end, concrete headwalls on both ends. Service pole and anchor at landward toe. Concrete headwalls on both ends (Permit No.

9307- Lowe).

FS Date: 04/05/2013

LM End 2.71 Issue Type + En Location * WS	
Category Supplemental GPS Latitude/Longitude	
Start End	
DWR UCIP Field Study 38.748524 ° 38.748524	٥
-121.694788 ° -121.694788	°
DWR ID	

Action/Comments

Inspector Comments: FS_ID:41892

DS_ID:19383 EP_NO: 13164

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: Need to contact owner to determine status of

crossing and install markers if appropriate.

FIELD_STRUCT_DESC: 4-inch steel natural gas collection pipe through the levee 2.8-feet below the crown. Pipe attached to downstream side of bridge. Design drawings available in permit.

(Permit No. 13164, 1981) FS Date: 04/05/2013

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	3.36	Rating **	М	Issue No.		1	
LM End	3.44	Issue Type +	Ма	Location *	WS		
Category				GPS Lati	tud	e/Longitude	
Calegory				Start		End	
Item	USACE E	rosion Survey	,	38.758432	0	38.759332	0
item				-121.695158	°	-121.696063	0
DWR ID	DWR_NA0	008_01_f _ 201	4_1				

Action/Comments

Inspector Comments: 2011 - Toe scour and bank slumping. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: KLR_3-5_R]

No Photos

3.50	Rating **	М	Issue No.		20			
3.50	Issue Type +	Ma	Location *		WS			
Category Earthen Levee				GPS Latitude/Longitude				
		Start		End				
Erosion /	Bank Caving		38.7599	10°	38.759910 °			
			-121.6969	20 °	-121.696920 °			
DWR ID DWR_NA0008_01_f _ 2013_20								
	3.50 Earthen L Erosion /	3.50 Issue Type + Earthen Levee Erosion / Bank Caving	3.50 Issue Type + Ma Earthen Levee Erosion / Bank Caving	3.50 Issue Type + Ma Location * Earthen Levee GPS La Start Erosion / Bank Caving 38.7599 -121.6969.	3.50 Issue Type + Ma Location * Earthen Levee GPS Latitud Start Erosion / Bank Caving 38.759910 ° -121.696920 °			

Action/Comments

Note and monitor erosion site.

LM Start	3.50	Rating **	М	Issue No.	20 (cont)
LM End	3.50	Issue Type +	Ma	Location *	WS

Photo 1 of 2: SP_2015_NA0008_256_20_20150401_00004.jpg



Another view of the erosion cutting into the slope. Fall 2013

Photo 2 of 2: SP_2015_NA0008_256_20_20150401_00005.jpg



Deep erosion at the bottom of the waterside slope 3-4 foot cut. Fall 2013

* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
U: Unacceptable
U: Unacceptable
A: Not Inspected/Rated
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
C: Corrected
C: Corrected
A/W: Acceptable but Monitor & Maintain

** Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	3.88	Rating **	М	Issue No.		2	
LM End	3.95	Issue Type +	Ма	Location *		WS	
Category				GPS Lat	itud	e/Longitude	
Calegory				Start		End	
Item	USACE E	rosion Survey	′	38.76403	7 °	38.764905	0
пеш			-121.70143	4 °	-121.702074	0	
DWR ID DWR_NA0008_01_f _ 2014_2							
			_				

Action/Comments

Inspector Comments: 2011 - Toe erosion and erosion pockets from tree popouts. More tree popouts are expected due to the eroding toe. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: KLR_3-9_R]

No Photos

Rating ** Issue No. LM Start 4.95 Μ 28 4.95 Issue Type + En Location * WS LM End Supplemental GPS Latitude/Longitude Category End Start DWR UCIP Field Study 38.777566 ° 38.777566 Item -121.707591 ° -121.707591 ° DWR ID

Action/Comments

Inspector Comments: FS_ID:11264

DS ID:19367 EP_NO: 4443

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe does not have adequate cover at crown. FIELD_STRUCT_DESC: 16-inch drainage pipe through the levee 0.5feet below the crown. Pad constructed over pipe for vehicular crossing. Pump on metal structure on the landward side, flap gate on the waterside end, Siphon breaker on the pipe on the waterside. Slide gate located on LS toe. (Permit No. 4443-RD 730). Design drawings available in permit.

FS Date: 04/05/2013

No Photos

Location LS : Land Side N/A : Not Applicable

WS: Water Side CR : Crown

A : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob: Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	6.06	Rating **	М	Issue No.		29
LM End	6.06	Issue Type +	En	Location *		WS
Catagony	ental	GPS Lati	tud	e/Longitude		
Calegory	Category					End
Item	DWR UC	IP Field Study		38.78892	۱°	38.788921 °
пеш				-121.72198	°	-121.721985 °
DWR ID						

Action/Comments

Inspector Comments: FS_ID:41068

DS_ID:19397 EP_NO: 5276

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe appears abandoned at this time.

FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation pipe through the levee 4.9-feet below the crown. Vertical pump unit on pile structure in stream. Siphon breaker on the landward shoulder in 16-inch steel riser. Flap gate on the landward end. Discharges into irrigation ditch at the landward side. (Permit No. 5276-RD 730 replaced an 18-inch at this location). Steel plate welded over end of pipe at pump structure.

FS Date: 04/05/2013

LM Start	6.10	Rating **	М	Issue No.		7
LM End	6.34	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Encroach	ments		38.7900	07 °	38.792433
пеш				-121.7233	08 °	-121.726463 °
DWR ID	ID DWR_NA0008_01_s _ 2012_7					
Action/Comments						

Equipment

Photo 1 of 2 : SP_2015_NA0008_256_7_20150401_00001.jpg



Equipment and irrigation pipe lays on the landside levee slope. Fall 2013

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	04/23/2015 04/23/2015	Jai Lor

LM Start	6.10	Rating **	М	Issue No.		7 (cont)	
LM End	6.34	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory		Start		End			
Item	Encroach	ments		38.7900	07 °	38.792433	0
item				-121.723308 °		-121.726463	0
DWR ID	DWR_NA0	008_01_s _ 201	2_7				
		Action/	Comme	nts			
Equipment	t						

Photo 2 of 2 : SP_2015_NA0008_256_7_20150401_00002.jpg



A current view of the equipment on the levee slope. Spring 2014

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles
Unit No. 02 Knights Landing Ridge Cut	Left	6.03

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/23/2015 - 04/23/2015			
DWR Inspector	Jai Lor			
Accompanied By				

Summer & Winter Inspections

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DWR must be informed on the:

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	0.00	Rating **	М	Issue No.		13		
LM End	5.92	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory			Start		End			
Item	Vegetatio	n		38.7242	59 °	38.792471 °		
item			-121.6652	30 °	-121.723844 °			
DWR ID DWR_NA0008_02_s _ 2015_13								
Action/Comments								

Control annual grass and weeds on the levee slopes and easements.



View of the vegetation on the landward side of the levee looking downstream. Spring 2015.

LM Start	0.00	Rating **	М	Issue No.	14			
LM End	5.92	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Vegetatio	n		38.72425	59 °	38.792471 °		
item				-121.66523	30 °	-121.723844 °		
DWR ID DWR_NA0008_02_s _ 2015_14								
Action/Comments								

Control annual grass and weeds on the levee slopes and easements.

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	1.00	Rating **	М	Issue No.		231		
LM End	1.00	Issue Type +	En	Location *	WS			
Category Supplemental				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UC	IP Field Study		38.733120	°	38.733120 °		
пеш				-121.679383	3°	-121.679383 °		
DWR ID								

Action/Comments

Inspector Comments: FS_ID:11307

DS_ID:19370 EP_NO: 9320

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Appears abandoned as pump is missing from

platform

FIELD_STRUCT_DESC: 16-inch steel pipe through the levee 2.8-feet below the crown. Discharges into 36-inch concrete standpipe at levee toe. Pump on steel pile structure in stream with metal walkway. Two service poles on the waterward slope. (Permit No. 9320-Pollock)

Originally included in O+M manual 1953.

FS Date: 04/09/2013

LM Start	1.91	Rating **	U	Issue No.		232	
LM End	1.91	Issue Type +	En	Location *		WS	
Category	Suppleme	ental		GPS La	titud	le/Longitude	
Category				Start		End	
Item	DWR UC	IP Field Study		38.74376	86°	38.743768	0
пеш				-121.68918	35 °	-121.689185	0
DWR ID							

Action/Comments

Inspector Comments: FS_ID:11306

DS_ID:19371 EP_NO: 9320 Repair Type: Urgent Crossing Status: Found

UCIP Comments: Pipe at flap gate rusted through at WS toe. Flap gate

does not function properly.

FIELD_STRUCT_DESC: 1 of 2: 12-inch pipe through the levee, 4-feet below the crown. Flap gate on waterward end at concrete headwall, siphon breaker in 2-inch CM pipe riser on the landward shoulder. Vertical pump unit on concrete foundation in irrigation ditch at the LS toe. (Permit No. 9320-Pollock) Originally included in O+M manual 1953

FS Date: 04/09/2013

No Photos

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	2.28	Rating **	М	Issue No.		233	
LM End	2.28	Issue Type +	En	Location *	WS		
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		38.74828	2°	38.748282	
пеш	item		-121.69265	2 °	-121.692652		
DWR ID							

Action/Comments

Inspector Comments: FS_ID:11304

DS_ID:19388 EP_NO: 15517

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Pipe alignment should be marked at levee crossing. FIELD_STRUCT_DESC: 8-inch natural gas pipeline through the levee 50-feet below the crown. (Permit No. 15517, 1991). Design drawings

available in permit. FS Date: 04/09/2013

LM Start	2.30	Rating **	U	Issue No.		Issue No.		234
LM End	2.30	Issue Type +	En	Location *		WS		
Category				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UC	P Field Study		38.74850)5 °	38.748505 °		
пеш				-121.69269	7 °	-121.692697 °		
DWR ID								

Action/Comments

Inspector Comments: FS_ID:41832

DS_ID:19386 EP_NO: 13164 Repair Type: Urgent

Crossing Status: Indicator Found

UCIP Comments: Need to have pipe located and marked properly if still

FIELD_STRUCT_DESC: 4-inch steel natural gas collection pipe through the levee 3.2-feet below the crown. (Permit No. 13164, 1981).

Design drawings available in permit.

FS Date: 04/09/2013

No Photos

No Photos

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	2.72	Rating **	М	Issue No.		2	
LM End	2.93	Issue Type +	Ma	Location *	WS		
Category	Suppleme	ental		GPS La	tituc	le/Longitude	
Calegory				Start		End	
Item	USACE Erosion Survey			38.75489	99°	38.757925	٥
item				-121.69265	3°	-121.693048	0
DWR ID	DWR_NA0	008_02_f _ 201	4_2		Ò		

38.754899 ° 38.757925 °

Action/Comments

Inspector Comments: 2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Multiple scallops throughout the site and slumping of the toe. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: KLR_3-0_L]

LM Start	2.98	Rating **	М	Issue No.		3	
LM End	3.11	Issue Type +	Ma	Location *	ation * WS		
Category			GPS Latitude/Longitude				
Calegory				Start End			
USACE Erosion Survey			38.7585	87 °	38.760053	0	
item				-121.693359 ° -121.694686			0
DWR ID	DWR_NA0008_02_s _ 2015_3						

Action/Comments

Inspector Comments: 2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Slumping of the levee toe. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: KLR_3-1_L]

No Photos

No Photos

LM Start	3.02	Rating **	U	Issue No.	230		
LM End	3.02	Issue Type +	Ма	Location *	WS		
Category	Earthen L	evee		GPS La	tituc	le/Longitude	
Calegory				Start End			
Item	Erosion /	Erosion / Bank Caving			12 °	38.759112 °	
item				-121.6936	38 °	-121.693638 °	
DWR ID	DWR_NA0008_02_f _ 2013_230						
			_				

Action/Comments

Note and monitor erosion site.



Erosion at the bottom of the slope. It appears that a fallen tree has caused a sink hole. Fall 2013

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	3.06	Rating **	U	Issue No.		229	
LM End	3.06	Issue Type +	Ма	Location *		WS	
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Erosion / Bank Caving			38.7595	42 °	38.759542 °	
пеш				-121.6940	07 °	-121.694007 °	
DWR ID	DWR_NA0	008_02_f _ 201:	3_229				

Action/Comments

Note and monitor erosion site.

Inspector Comments: Erosion is undermining large oak tree and is growing.

LM Start	3.06	Rating **	U	Issue No.	229 (cont)
LM End	3.06	Issue Type +	Ma	Location *	WS



Another view of the vertical cut at the bottom of the slope. Fall 2013

Photo 2 of 2: SP_2015_NA0008_257_229_20150401_00009.jpg



Waterside eroison vertical cut at bottom of slope. Fall 2013

LM Start	3.60	Rating **	М	Issue No.	No. 4		
LM End	3.73	Issue Type +	Ма	Location *	WS		
Category	Suppleme	ental		GPS Lati	tud	e/Longitude	
Calegory				Start End			
Item	USACE E	rosion Survey	′	38.765522	0	38.767336 °	
пеш				-121.700608	°	-121.701023 °	
DWR ID	DWR_NA0008_02_f _ 2014_4						
		A - 1' /	<u> </u>	-1-			

Action/Comments

Inspector Comments: 2011 - The toe has eroded away and there are a few scallops from bank slumping. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: KLR_3-7_L]

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	4.30	Rating **	М	Issue No.	5		
LM End	4.55	Issue Type +	Ма	Location *	WS		
Category	Suppleme	ental		GPS Lat	ituc	le/Longitude	
Calegory				Start		End	
Item	USACE Erosion Survey			38.77527	1°	38.778115	0
item				-121.70368	5°	-121.706195	0
DWR ID	DWR_NA0	008_02_f _ 201	4_5				

Action/Comments

Inspector Comments: 2011 - This site is the downstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: KLR_4-7_L]

No Photos

LM Start	4.56 Rating ** U			Issue No.		15	
LM End	4.56	Issue Type +	Ma	Location *	WS		
Catagony	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	n		38.7784	02 °	38.778402 °	
item				-121.7060	22 °	-121.706022 °	
DWR ID	DWR_NA0	008_02_s _ 201	4_15				

Action/Comments

Trees / Woody Vegetation



A cottonwood tree may have been struck by lighting. The tree is split into three parts. Spring 2014

LM Start	4.72 Rating ** A/W		Issue No.	228			
LM End	4.72	Issue Type +	Ma	Location *	LS		
Category	Earthen L	.evee		GPS La	titud	e/Longitude	
		Start		End			
Item	Cracking			38.7800	80°	38.780080	٥
пеш				-121.7081	37 °	-121.708137	0
DWR ID	DWR_NA0	008_02_f _ 201	3_228				

Action/Comments

Monitor and have inspected by geotechnical engineer.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	4.79	Rating **	A/W	Issue No.	226		
LM End	4.82	Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory			Start		End		
Item	Cracking			38.7808	58 °	38.781102	0
пеш				-121.7090	93 °	-121.709385	0
DWR ID	DWR_NA0008_02_f _ 2013_226						
Action/Comments							

Monitor and have inspected by geotechnical engineer.

Photo 1 of 1: SP_2015_NA0008_257_226_20150401_00005.jpg



Cracking on the landside is 3-4 inches wide and 12 inches deep. Fall 2013

Photo 1 of 2: SP 2015 NA0008 257 227 20150401 00006.jpg

LM Start	4.79	Rating **	A/W	Issue No. 227		227	
LM End	4.79	Issue Type +	Ma	Location * WS		WS	
Category	Earthen L	arthen Levee GPS Latitude/Longitude					
Calegory				Start		End	
Item	Cracking			38.7808	58 °	38.780858	0
item				-121.7090	95 °	-121.709095	0
DWR ID	DWR_NA0	008_02_f _ 201	3_227				

Action/Comments

Monitor and have inspected by geotechnical engineer.

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Another view of the cracking on the levee slope. Fall 2013

 LM Start
 4.79
 Rating **
 A/W
 Issue No.
 227 (cont)

 LM End
 4.79
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 2: SP_2015_NA0008_257_227_20150401_00007.jpg



Cracking on levee slope 1-2 inches wide and 6 inches deep. Fall 2013

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	5.36	Rating **	М	Issue No.	6		
LM End	5.93	Issue Type +	Ма	Location *	WS		
Category	Suppleme	ental	GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	USACE E	rosion Survey	′	38.78656	s °	38.792395 °	
пеш				-121.71672	1°	-121.724091 °	
DWR ID	DWR_NA0	008_02_f _ 201	4_6			·	

No Photos

Action/Comments

Inspector Comments: 2011 - This site is the upstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: KLR_5-8_L]

LM Start	5.64	Rating **	М	Issue No. 23		235		
LM End	5.64	Issue Type +	En	Location *	on * WS			
Category	Suppleme	ental		GPS Latitude/Longitude				
Calegory	Category			Start		End		
Item	DWR UC	IP Field Study	,	38.7886	62 °	38.788662 °		
пеш				-121.7189	97 °	-121.718997 °		
DWR ID						·		

No Photos

Action/Comments

Inspector Comments: FS_ID:11289

DS ID:19375 EP_NO: 3671

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Electrical panal missing parts. Siphon breaker missing from pipe on LS. Pipe heavily corroded at outlet with holes present. Appears abandoned-should be abandoned properly. FIELD_STRUCT_DESC: 20-inch steel pipe through the levee, 5.5-feet below the crown. Siphon breaker in a steel pipe riser on the landward slope. Metal cutoff wall . Service pole on the waterward slope. (Permit No. 3671-Wallace Replaced 20-inch pipe at same location in 1961)

FS Date: 04/09/2013

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2015

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	04/23/2015 04/23/2015	Jai Lor

LM Start	5.94	Rating **	М	Issue No.		12
LIVI Start	3.34		IVI	10000 1101		14
LM End	5.94	Issue Type +	En	Location *		WS
Category	Earthen L	evee		GPS Latitude/Longitude		
Calegory	Start				End	
Item	Encroach	ments		38.792661 °		38.792661 °
item				-121.7240	47 °	-121.724047 °
DWR ID	DWR_NA0	008_02_s _ 201	4_12			
Action/Comments						
Debris						

Photo 1 of 1: SP_2015_NA0008_257_12_20150401_00003.jpg



A debris pile is on the waterside levee slope. Spring 2014

LM Start	5.94	Rating **	М	Issue No.	1		
LM End	5.94	Issue Type +	En	Location *	LS		
Category	Earthen Levee GPS Latitude/Longitude				le/Longitude		
Calegory	alegory					End	
Item	Encroach	38.7927	35 °	38.792735	0		
item				-121.7240	92 °	-121.724092	0
DWR ID	DWR_NA0008_02_s _ 2012_1						
Action/Comments							

Action

Crops

Inspector Comments: No access; strawberries are being grown landside levee slope and crown

Photo 1 of 2 : SP_2015_NA0008_257_1_20150401_00001.jpg
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Strawberry patch on the levee crown has added other crops on the crown. Fall 2013

LM Start	5.94	Rating **	М	Issue No.	1 (cont)
LM End	5.94	Issue Type +	En	Location *	LS

Photo 2 of 2: SP_2015_NA0008_257_1_20150401_00002.jpg



Crops (strawberries and berry vines) are planted on the crown with a fence blocking access. Spring 2014

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement